



BLUE HORIZON
X E G A T E

COLD CRACKING CATALYSTS NANO-CRACKING

Refine Heavy Crude Oil and Mazut
with a efficiencies up to 85% in
atmospheric distillation conditions



XEGATE S.A.
via Vela 8, Locarno Switzerland
www.xegate.eu info@xegate.eu

Our NANO-CRACKING Unit increases the atmospheric distillation efficiency of the Crude Oil in normal refining processes.

Our Catalyst is mixed with Mazut or Heavy or Extra-Heavy Oil.
In case of the Heavy Oil, we can increase the efficiency of the first atmospheric distillation from 30% to 65% (peak to 80%).

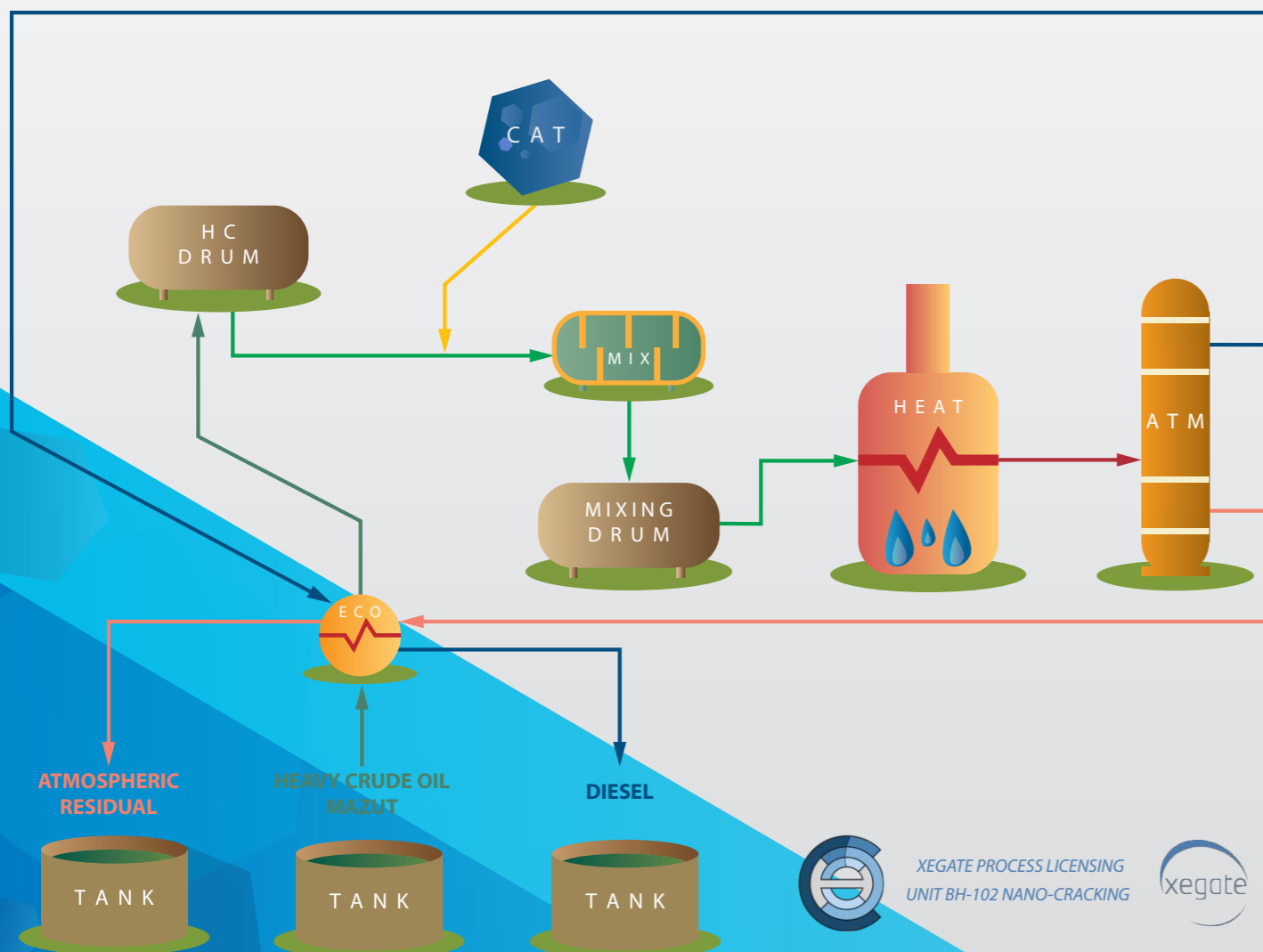
Distillation Temperature: 357°C
Distillation pressure: atmospheric

Our NANO-CRACKING Unit is excellently exploited in case of Heavy Crude Oil: the Crude is simply mixed with your Cure and distilled in your Refinery, exactly as you are doing now.

The result is astonishing.
Your efficiency boosts up to 85% and you don't even need the vacuum distillation.

And the 15% of atmospheric residual? No problem!
We refine it, check our other Units XBF, NEO-SRU, X-BIT).

RESULTS WITH XEGATE: ZERO WASTE, MAX PROFITS



LOW INVESTMENT

Cost of NANO-CRACKING Unit is only some mixers to blend the Catalyst

FAST RETURN

For each Ton of Extra Heavy Oil treated, the NET INCOME is 185 USD/Ton

SMART

Just mix your Crude with less than 1% Catalysts and refine normally

EASY TO INSTALL

Only Mixers and Tanks are required, and the Catalyst reacts in a few minutes

HIGH QUALITY

The distilled products are top quality, and the residual is refined in our XBF Unit

GREEN

No waste, the residual can be treated by our other Unit (XBF, NEO-SRU, X-BIT)

More than 70% of oil reserves are Heavy and Extra Heavy Crude Oil.

Extra Heavy Crude Oil transportation is very hard and in colder climates is even harder and nearly impossible. Also processing and refining of it needs a lot of energy and the costs are somehow prohibitive.

With our hi-tech NANO-CRACKING Catalysts we effectively crack Heavy and Extra Heavy Crude Oil into much lighter Crudes that we refine with efficiencies of 60% to 90% (or even more) just in the Atmospheric Distillation.

Breaking long and heavy carbon chains is a very hard task in process and needs a lot of energy. NANO-CRACKING Catalysts break them into much shorter chains.

Besides cracking, we also reduce the viscosity of Heavy and Extra Heavy Crude Oil and for a better transfer in pipelines; this reduces significantly the costs, specially in cold climates or wherever Extra Heavy Crude Oil is employed.

NANO-CRACKING technology reduces the complex sequences of a Refinery to a faster-performing process with higher efficiency and lower cost.

Our technologies not only decrease the viscosity by cracking Crude, but also has many other beneficial effects such as reducing sulfur content, improving octane number of produced light cuts and transform Oil Sludge and Atmospheric Residual into highly profitable products (see our other Xegate's Units such as: NEO-SRU, XBF, X-BIT, OCTANE-BOOSTER).

We will resurrect the Extra Heavy Crude Oil business: in the world there are oceans of Extra Heavy Crude Oil reserves that are shut down due to their unfeasibility to be refined.

We can put them back in business with considerable profit, and the potential of our hi-tech technologies is almost unlimited.

XEGATE does and supports Advanced Research & Development around the World since 2012, with major focus on the fields of nanotechnology for Energy and the Environment, for the sake of the Earth and Mankind.

Cold Cracking Catalysts Products are in Strategic Partnership with the Estimated Company KGM.

KGM HOLDING GROUP, focusing on the Oil & Gas Industry, provides a broad range of hi-tech catalysts and technologies to develop new solutions to so far unsolved issues and offers a full package of services, consultancy and supervisions for refineries, distributors, oil fields, and transportation pipelines.

KGM includes a network of Universities and Institutes worldwide, especially in the United States of America, Germany, the Netherlands, Iran and China.

KGM is active in the refining, with more than 15 years of experience and Join-Ventured Companies worldwide.

Hard working, honesty and trust are our keys in every project and we consider our Clients as our Partners and as part of ourselves.

Join Xegate, your Future is Now!

We live in an era of energy and environmental challenges

We live in an era of amazing nanotechnological advancements

We have the tools to balance, let's open our eyes



+41 91 228 0398



info@xegate.eu



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CH-6600 Switzerland